Abstract:

Method and Circuit System for Calibrating Voltage and Temperature Deviations of the Effective Current of Hydraulic Valves in a PWM Drive

present invention relates to a method for reducing effective current (I_{RMS}) and deviations between the measured current (I_{meas}) in a pulse-width-modulated current control, in particular for electronic brake control units of vehicles, wherein the measured current (I_{meas}) determined at a certain predefined time within an actuation means compensation occurs by a and (t_{PWM}) period supply-voltage-responsive temperature-responsive and/or compensation variables which are added to the measured current such that a corrected nominal current $(I_{nominal})$ available for current control. The invention also relates to a circuit arrangement for actuating several inductive loads and comprises a circuit for PWM control of the load current. The method of the invention is implemented as a program in a microcomputer or microcomputer system that is electrically connected to the PWM circuit.

(Figure 1)